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(620) 241-6090; www.geostatenvironmental.com

November 25, 2014

Akhter Hossain, PE
Engineering Associate
Kansas Department of Health and Environment
Bureau of Waste Management
Hazardous Waste Permits Section
Curtis State Office Building
1000 SW Jackson, Suite 320
Topeka, KS 66612-1366

**RE: Submittal & Certification of Building C
Rinsate Sample Results,
Clean Harbors Facility
Wichita, Kansas**

Dear Mr. Hossain;

In conjunction with and on behalf of Clean Harbors (CH), GeoStat Environmental, LLC (GeoStat), iSi Environmental (iSi), and Cameron-Cole (C C) are cooperatively providing the attached submittal of analytical results in support of RCRA closure activities at Clean Harbor's Wichita, Kansas facility (the Site). The intent of this transmittal is to provide analytical results to KDHE and USEPA to determine the suitability of these materials for off-site disposal (concrete floor and foundation) and recycling (building walls and ceiling). A stamped and signed certification stating that the rinsate sampling effort(s) were observed and overseen by a Kansas Professional Engineer is also provided. Subsurface soil samples were not observed by the certifying engineer and are therefore not subject to certification.

Initial efforts in Building C were to empty the building of permitted waste prior to any decontamination activity (washing, rinsing, and rinsate sampling). After the west half was empty a plastic sheeting barrier was to separate the building into approximate halves. Decontamination activities were always limited to the empty halves of the building. Closure by halves was required to allow Clean Harbor operations to continue during the remedial efforts at the facility. Building C was the last building that is undergoing closure activities at the Site. Building C is also a very large and long building which remained in active use as other buildings on-site were closed or re-worked (Building J). The two halves of Building C are referred to as the western and eastern halves of the building. Each of these halves were further subdivided into 4 bays for both the west and east halves, for 8 total bays. Bays were numbered from west to east from #1 to #8.

WESTERN BUILDING HALF

The first portion emptied was the western half of the building; this western half has four (4) secondary containment bays separated by six-inch high concrete curbs. This half of the building was emptied first, divided from the remaining building by the secondary containment concrete berm and temporary plastic sheeting barrier wall. Then each bay was washed, triple rinsed, and rinsate sampled.

Decontamination began with general cleaning and power-washing of Building C on October 6, 2014. Rinsate sampling for all 4 western bays occurred on October 10, 2014. Initial sampling in western half was completed with a single sample to represent the entire bay (ceiling, walls, and floors). Results of the initial sampling of the western half of Building C indicated that concentrations of all COCs within Bays 2, 3 and 4 appeared to be below levels of concern and consistent with previously approved concentrations for other buildings on Site. Bay 1 rinsate results, however, contained higher than expected levels of some metals (including Mercury). Based on those results it was decided to rewash and resample Bay 1. Bay 1 was re-washed and sampled on November 18, 2014, following the initial sampling of the eastern half of the building. The resampling of Bay 1 was separated to provide ceiling and wall (CW) and floor (FL) results.

EASTERN BUILDING HALF

The approximately eastern half of the building has one large secondary containment curb, with two very small secondary containment areas in two corners. For sampling purposes it was decided to subdivide the area into approximately equal 4 bays using the metal building support rafters as dividing boundaries. Plastic sheeting was attached from floor to wall at each of the 3 dividing walls (for 4 divisions or bays). Decontamination began with general cleaning and power-washing of Building C on November 11, 2014. Rinsate sampling for all 4 western bays occurred on November 18, 2014. All eastern bays (Bays 5 to Bay 8) were sampled with metal ceiling and walls, separated from the concrete floors.

DECONTAMINATION AND WASTE DISPOSAL

Waste water and any entrained silts and/or solids generated during the decontamination and rinsing of the on-site buildings and tanks has been contained in a large frac tank on-site (Tank No. SV 34730L). Waste water generated during decontamination activities at the Site is being transported off-site for disposal at an appropriate Clean Harbor's facility - for incineration, once a sufficient volume of rinse water has been generated. In the case Building C several drums worth of solids were removed from building walls and ceiling that was a very old (and loose) spray foam insulation. Some insulation was removed dry, but all remaining insulation was removed by the power washing process. These solids were collected and have been included with the bulk soil shipments to Clean Harbor's Lone Mountain facility.

Washing, triple rinsing, and rinsate sampling within Building C started with the ceilings, then walls, and finally the floors. Procedures, methods, and the equipment used were selected to match those used most successfully during the previous decontamination. The initial results for the Building C rinsate sampling demonstrated no exceedances for volatile organics and usually

lower levels of common metals and mineral compounds. The exception was Bay 1 which in the initial sample exhibited some higher levels of metals including detected levels of Mercury.

Two Building C (west half and east half) rinsate dioxin / furan composite samples were also analyzed, with favorable results received, with no high levels detected or exceedances noted. Each composite dioxin / furan sample represented half of the whole building (ceiling, walls, and floors), effectively screening all the insides of Building C with the two samples.

CEILINGS AND WALLS

Based upon these results, Clean Harbors believes that the above grade building materials from Building C, including the Metal Building Canopy (Ceiling and Walls) are suitable for common metals re-cycling. There is no porous building debris, or other C&D (windows, wood walls, roof decking materials, etc) or any other materials requiring other off-site disposal from the upper structure of Building C.

CONCRETE FLOORING

RFI activities (uncertified soil sampling activities) have already identified soil concentrations exceeding interim action objectives in soil immediately beneath the floor throughout almost all of Building C. Due the lack of significant clean concrete to possibly save and also due to schedule constraints, all of Building C's concrete flooring will all be removed for disposal as hazardous waste. Building C concrete will be crushed to a suitable size on-site, with the crushed concrete then loaded and shipped to Clean Harbor's Lone Mountain facility during and after the demolition of the building.

Building C's entire concrete flooring will be removed and disposed of as hazardous waste. Therefore there will be no delineation of concrete floor slabs and therefore no under-slab floor sampling. Therefore, mapping of Building C RFI data, specific to under-slab concrete results is not included. The entire concrete flooring and those identified impacted soils (from the RFI data set) will soon to be removed and shipped to Clean Harbor's Lone Mountain facility.

RINSATE SAMPLE CERTIFICATION

Clean Harbors hereby certifies, through the undersigned third party independent Kansas licensed Professional Engineer, that the attached rinsate sampling documentation, mapping, and laboratory analytical results are representative of the areas or surfaces identified therein. Further that these areas or surfaces identified have been effectively cleaned and rinsate sampled in general accordance to the Partial Closure Plan for Buildings B, D and J approved by KDHE/USEPA on October 10, 2013.

I hereby certify under penalty of law that this document and all attachments concerning rinsate results were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and

belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

The entire Clean Harbor team appreciates the continued joint cooperation of KDHE and USEPA on this project and we look forward to your timely response to this submittal. Please call me at (620) 245-4675, if you have any questions regarding this certification.

Sincerely,
GeoStat Environmental, LLC



Stuart B. Klaus, PE
Senior Engineer



SUBMITTAL ATTACHMENTS:

1. Spreadsheet of Building C Rinsate Analytical Results
2. Crack Survey of Building C (w/ Crack Survey Figure, Description Table, & Photo-log)

cc: Chris Jump, USEPA
Martin Smith, Clean Harbors
Michael Stephenson, Cameron Cole
Brady Gerber, iSi Environmental

SUBMITTAL ATTACHMENTS

ATTACHMENT 1:

Spreadsheet of Building C Bay Rinsate Analytical Results

Including:

- Sample Location Map**
- Rinsate Activity Tracking Sheet**
- Comparison of Results to KDHE Risk Levels**

ATTACHMENT 2:

Crack Survey of Building C

Including:

- Crack Survey Figure**
- Crack Survey Description Table**
- Orientated Color Photo Log of Cracks**

ATTACHMENT 1: Spreadsheet of Building C Bay Rinsate Analytical Results

Including:

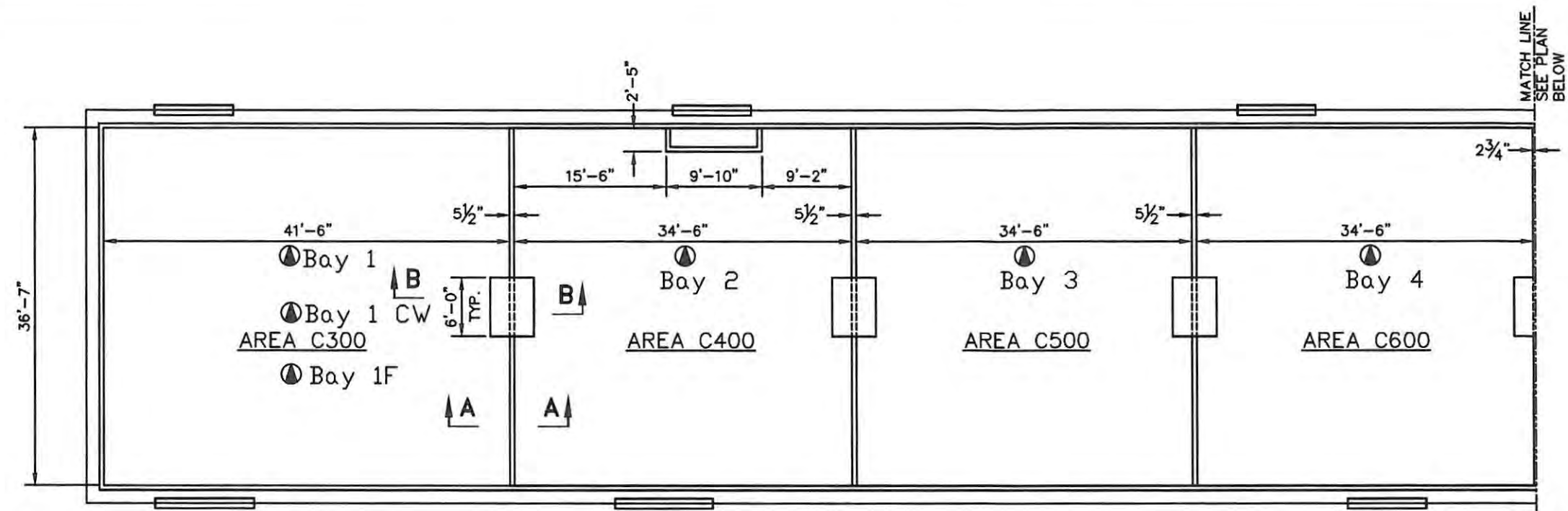
- Sample Location Map**
- Rinsate Activity Tracking Sheet**
- Comparison of Results to KDHE Risk Levels**

CLEAN HARBORS, WICHITA, KS

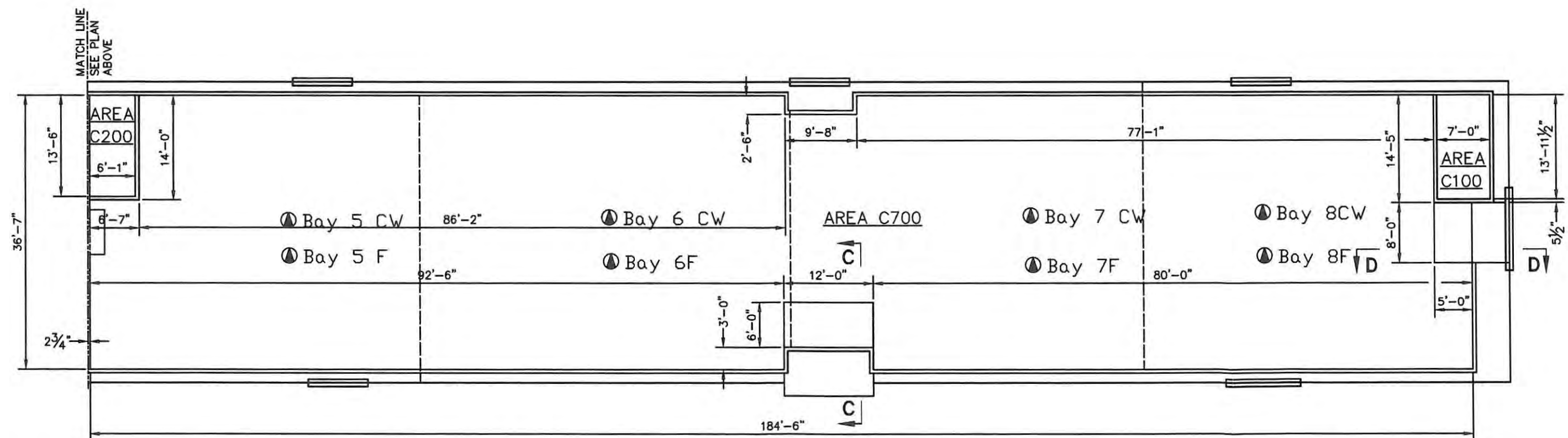
Analytical Results

Tab		Description and Comments
Contents		This listing of the Excel Worksheet Contents.
Site Map		Drawing Showing Locations of Structures Sampled at the Facility.
Building C	Bld C Figure	Drawing of Building C Showing Sample Locations
	Bld C Decon Summary	Summary of Decontamination and Rinsate Sampling Events
	Bld C Bay 1-4 Table	Table of Bld C Bay 1-4 Analytical Results With Comparison to KDHE Tier II RSK Levels.
	Bld C Bay 1-4 D&F Table	Table of Bld C Bay 1-4 Dioxin/Furan Analytical Results With Comparison to KDHE Tier II RSK Levels.
	Bld C Bay 1 Resample Table	Table of Bld C Bay 1 Analytical Results With Comparison to KDHE Tier II RSK Levels
	Bld C Bay 5-8 Table	Table of Bld C Bay 5-8 Analytical Results with Comparison to KDHE Tier II RSK Levels
	Bld C Bay 5-8 D&F Table	Table of Bld C Bay 5-8 Dioxin/Furan Analytical Results With Comparison to KDHE Tier II RSK Levels.

Notes: D&F = Dioxin & Furan



PLAN
BUILDING C



PLAN
BUILDING C



LEGEND

- ▲ BAY 1 - COMPOSITE SAMPLE COLLECTED FROM CEILING, WALLS, AND FLOOR
- ▲ BAY 1CW - COMPOSITE SAMPLE COLLECTED FROM CEILING AND WALLS
- ▲ BAY 1F - COMPOSITE SAMPLE COLLECTED FROM FLOOR
- ROOM SEGMENT FOR SAMPLING PURPOSES

CLEAN HARBORS
PROJECT NAME
BUILDING C:
RINSATE SAMPLE LOCATIONS
SHEET TITLE

isi

PROJECT MGR. DATE 10-27-2014
DRAWN BY: 1487025
CHECKED BY: 1487025
JOB NO. 1
SHEET/OF 1

**Clean Harbors Wichita
Building C Decontamination Summary**

Unit	Comments	Inventory	Decontamination Complete (date)	Rinsate Samples Collected (PE Required) (date)	Internal Review	Follow up Actions	Submitted to State/EPA (date)	Determination	Agency Determination Via? (phone, email etc.)	Date
Bay 1	Concrete floor to be disposed of at Lone Mountain Landfill due to impacted soil underlying. Floor and ceiling/wall rinsate sample collected 11/18/14.	None	10/06/14 to 10/10/14	10/10/2014	Metal exceedances	Repeat Decon				
		None	11/18/14 to 11/18/14	11/18/2014	Metals pass	Submit Results				
Bay 2	Concrete floor to be disposed of at Lone Mountain Landfill due to impacted soil underlying.	None	10/06/14 to 10/10/14	10/10/2014	Organics pass	Submit Results				
Bay 3	Concrete floor to be disposed of at Lone Mountain Landfill due to impacted soil underlying.	None	10/06/14 to 10/10/14	10/10/2014	Organics pass	Submit Results				
Bay 4	Concrete floor to be disposed of at Lone Mountain Landfill due to impacted soil underlying.	None	10/06/14 to 10/10/14	10/10/2014	Organics pass	Submit Results				
Bay 5	Concrete floor to be disposed of at Lone Mountain Landfill due to impacted soil underlying.	None	11/11/14 to 11/18/14	11/18/2014	Organics pass	Submit Results				
Bay 6	Concrete floor to be disposed of at Lone Mountain Landfill due to impacted soil underlying.	None	11/11/14 to 11/18/14	11/18/2014	Organics pass	Submit Results				
Bay 7	Concrete floor to be disposed of at Lone Mountain Landfill due to impacted soil underlying.	None	11/11/14 to 11/18/14	11/18/2014	Organics pass	Submit Results				
Bay 8	Concrete floor to be disposed of at Lone Mountain Landfill due to impacted soil underlying.	None	11/11/14 to 11/18/14	11/18/2014	Organics pass	Submit Results				

Inventory - List all items removed from unit and provide reference to location where they were moved (e.g. manifest number, tank number for rinse water, etc.). Use separate sheet if necessary.

PACE ANALYTICAL

Job Number: 60180084
 Account: ISI Environmental Services
 Project: Clean Harbors; Wichita, KS
 Project Number:

Legend: Detection Exceed

Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	BLD C BAY 1	BLD C BAY 2	BLD C BAY 3	BLD C BAY 4	TRIP BLANK
Lab Sample ID:			60180084004	60180084003	60180084002	60180084001	60180084006
Date Sampled:			10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Matrix:			Water	Water	Water	Water	Water

GC/MS Volatiles (SW846 8260B)

Acetone	ug/l	11500	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)
Acrolein	ug/l	0.0415	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)
Acrylonitrile	ug/l	0.0491	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Benzene	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Bromobenzene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Bromochloromethane	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Bromodichloromethane	ug/l	80	1.7	1.1	ND (1.0)	2.3	ND (1.0)
Bromoform	ug/l	80	ND (1.0)	ND (1.0)	ND (1.0)	1.1	ND (1.0)
Bromomethane	ug/l	7.02	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
2-Butanone (MEK)	ug/l	4920	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
n-Butylbenzene	ug/l	169	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
sec-Butylbenzene	ug/l	30.5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
tert-Butylbenzene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Carbon disulfide	ug/l	716	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Carbon tetrachloride	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Chlorobenzene	ug/l	100	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Chloroethane	ug/l	14000	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Chloroform	ug/l	80	1.1	ND (1.0)	ND (1.0)	1.9	ND (1.0)
Chloromethane	ug/l	127	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
2-Chlorotoluene	ug/l	88.9	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
4-Chlorotoluene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	ug/l	25	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethene	ug/l	7	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloropropene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

PACE ANALYTICAL

Job Number: 60180084
Account: ISI Environmental Services
Project: Clean Harbors; Wichita, KS
Project Number:

Legend:
Detection
Exceed

Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	BLD C BAY 1	BLD C BAY 2	BLD C BAY 3	BLD C BAY 4	TRIP BLANK
Lab Sample ID:			60180084004	60180084003	60180084002	60180084001	60180084006
Date Sampled:			10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Matrix:			Water	Water	Water	Water	Water
1,2-Dibromo-3-chloropropane	ug/l	0.20	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
1,2-Dibromoethane (EDB)	ug/l	0.05	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,2-Dichloroethane	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,2-Dichloropropane	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,3-Dichloropropane	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
2,2-Dichloropropane	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,4 Dioxane (p-Dioxane)	ug/l	77.20	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)
Dibromomethane	ug/l	-	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Dibromochloromethane	ug/l	80	2.2	1.5	ND (1.0)	3.3	ND (1.0)
Dichlorodifluoromethane	ug/l	366	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
cis-1,2-Dichloroethene	ug/l	70	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
cis-1,3-Dichloropropene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,2-Dichlorobenzene	ug/l	600	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,3-Dichlorobenzene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,4-Dichlorobenzene	ug/l	75	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
trans-1,2-Dichloroethene	ug/l	100	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
trans-1,3-Dichloropropene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Ethylbenzene	ug/l	700	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
2-Hexanone	ug/l	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Hexachloro-1,3-butadiene	ug/l	6.32	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Isopropylbenzene	ug/l	451	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
p-Isopropyltoluene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
4-Methyl-2-pentanone	ug/l	1020	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Methylene chloride	ug/l	5	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Methyl Tert Butyl Ether	ug/l	133	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Naphthalene	ug/l	1.11	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
n-Propylbenzene	ug/l	660	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

PACE ANALYTICAL

Job Number: 60180084
Account: ISI Environmental Services
Project: Clean Harbors; Wichita, KS
Project Number:

Legend:
Detection
Exceed

Client Sample ID:		KS Tier 2 Risk Based Standards	BLD C BAY 1	BLD C BAY 2	BLD C BAY 3	BLD C BAY 4	TRIP BLANK
Lab Sample ID:		Residential	60180084004	60180084003	60180084002	60180084001	60180084006
Date Sampled:		GW (KDHE	10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Matrix:		03/2014)	Water	Water	Water	Water	Water
Styrene	ug/l	100	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1,1,2-Tetrachloroethane	ug/l	5.35	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1,1-Trichloroethane	ug/l	200	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1,2,2-Tetrachloroethane	ug/l	0.694	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1,2-Trichloroethane	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,2,3-Trichlorobenzene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,2,3-Trichloropropane	ug/l	0.00468	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
1,2,4-Trichlorobenzene	ug/l	70	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,2,4-Trimethylbenzene	ug/l	8.44	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
1,3,5-Trimethylbenzene	ug/l	44	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Tetrachloroethylene	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Toluene	ug/l	1000	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Trichloroethene	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Trichlorofluoromethane	ug/l	1090	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Vinyl chloride	ug/l	2	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vinyl Acetate	ug/l	406	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Xylene (Total)	ug/l	10000	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
m,p-Xylene	ug/l	10000	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
o-Xylene	ug/l	10000	ND (1.0)	ND (1.0)	1.4	ND (1.0)	ND (1.0)

GC/MS Semi-volatiles (SW846 8270D)

Benzoic Acid	ug/l	-	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	-
2-Chlorophenol	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
4-Chloro-3-methyl phenol	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2,4-Dichlorophenol	ug/l	41.2	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2,4-Dimethylphenol	ug/l	292	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-

PACE ANALYTICAL

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Project Number:

Legend:
Detection
Exceed

Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	BLD C BAY 1	BLD C BAY 2	BLD C BAY 3	BLD C BAY 4	TRIP BLANK
Lab Sample ID:			60180084004	60180084003	60180084002	60180084001	60180084006
Date Sampled:			10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Matrix:			Water	Water	Water	Water	Water
2,4-Dinitrophenol	ug/l	31	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	-
4,6-Dinitro-2-methylphenol	ug/l	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-
2-Methylphenol (o-Cresol)	ug/l	744	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
3&4-Methylphenol (m&p Cresol)	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2-Nitrophenol	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
4-Nitrophenol	ug/l	-	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	-
Pentachlorophenol	ug/l	1	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	-
Phenol	ug/l	4560	ND (5.0)	ND (5.0)	9.2	ND (5.0)	-
2,4,5-Trichlorophenol	ug/l	1260	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2,4,6-Trichlorophenol	ug/l	13	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Acenaphthene	ug/l	253	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Acenaphthylene	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Aniline	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Anthracene	ug/l	1150	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Benzo(a)anthracene	ug/l	0.00367	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Benzo(a)pyrene	ug/l	0.223	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Benzo(b)fluoranthene	ug/l	0.20	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Benzo(g,h,i)perylene	ug/l	0.16	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Benzo(k)fluoranthene	ug/l	1.62	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
4-Bromophenyl phenyl ether	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Butyl benzyl phthalate	ug/l	333	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Benzyl Alcohol	ug/l	-	5.5	ND (5.0)	ND (5.0)	ND (5.0)	-
2-Chloronaphthalene	ug/l	344	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
4-Chloroaniline	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Carbazole	ug/l	28.70	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Chrysene	ug/l	22.3	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
bis(2-Chloroethoxy)methane	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-

PACE ANALYTICAL

Job Number: 60180084
Account: ISI Environmental Services
Project: Clean Harbors; Wichita, KS
Project Number:

Legend:
Detection
Exceed

Client Sample ID:		KS Tier 2 Risk Based Standards	BLD C BAY 1	BLD C BAY 2	BLD C BAY 3	BLD C BAY 4	TRIP BLANK
Lab Sample ID:		Residential	60180084004	60180084003	60180084002	60180084001	60180084006
Date Sampled:		GW (KDHE	10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Matrix:		03/2014)	Water	Water	Water	Water	Water
bis(2-Chloroethyl)ether	ug/l	0.124	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
bis(2-Chloroisopropyl)ether	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
4-Chlorophenyl phenyl ether	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
1,2-Dichlorobenzene	ug/l	600	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-
1,3-Dichlorobenzene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-
1,4-Dichlorobenzene	ug/l	75	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-
2,4-Dinitrotoluene	ug/l	2.67	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2,6-Dinitrotoluene	ug/l	0.557	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
3,3'-Dichlorobenzidine	ug/l	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-
Dibenzo(a,h)anthracene	ug/l	0.00805	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Dibenzofuran	ug/l	4.13000	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Di-n-butyl phthalate	ug/l	1350	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Di-n-octyl phthalate	ug/l	18.4	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Diethyl phthalate	ug/l	12200	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Dimethyl phthalate	ug/l	155000	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
bis(2-Ethylhexyl)phthalate	ug/l	6	29.7	49.4	ND (5.0)	ND (5.0)	-
Fluoranthene	ug/l	255	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Fluorene	ug/l	162	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Hexachlorobenzene	ug/l	1	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Hexachloro-1,3-butadiene	ug/l	6.32	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	-
Hexachlorocyclopentadiene	ug/l	50	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-
Hexachloroethane	ug/l	9.14	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Indeno(1,2,3-cd)pyrene	ug/l	0.117	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Isophorone	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2-Methylnaphthalene	ug/l	16.7	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2-Nitroaniline	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
3-Nitroaniline	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-

PACE ANALYTICAL

Job Number: 60180084
Account: ISI Environmental Services
Project: Clean Harbors, Wichita, KS
Project Number:

Legend:
Detection
Exceed

Client Sample ID:		KS Tier 2 Risk Based Standards	BLD C BAY 1	BLD C BAY 2	BLD C BAY 3	BLD C BAY 4	TRIP BLANK
Lab Sample ID:		Residential	60180084004	60180084003	60180084002	60180084001	60180084006
Date Sampled:		GW (KDHE	10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Matrix:		03/2014)	Water	Water	Water	Water	Water
4-Nitroaniline	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Naphthalene	ug/l	1.11	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Nitrobenzene	ug/l	1.01	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
N-Nitroso-di-n-propylamine	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
N-Nitrosodiphenylamine	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Phenanthrene	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Pyrene	ug/l	202	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Pyridine	ug/l	4.96	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-
1,2,4-Trichlorobenzene	ug/l	70	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-

GC Semi-volatiles (SW846 8081B)

Aldrin	ug/l	0.0495	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
alpha-BHC	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
beta-BHC	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
delta-BHC	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
gamma-BHC (Lindane)	ug/l	0.2	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
alpha-Chlordane	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
gamma-Chlordane	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Dieldrin	ug/l	0.048	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
4,4'-DDD	ug/l	1.35	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
4,4'-DDE	ug/l	1.03	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
4,4'-DDT	ug/l	0.73	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Endrin	ug/l	2	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Endosulfan sulfate	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Endrin aldehyde	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Endrin ketone	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-

PACE ANALYTICAL

Job Number: 60180084
Account: ISI Environmental Services
Project: Clean Harbors; Wichita, KS
Project Number:

Legend:
Detection
Exceed

Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	BLD C BAY 1	BLD C BAY 2	BLD C BAY 3	BLD C BAY 4	TRIP BLANK
Lab Sample ID:			60180084004	60180084003	60180084002	60180084001	60180084006
Date Sampled:			10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Matrix:			Water	Water	Water	Water	Water
Endosulfan-I	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Endosulfan-II	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Heptachlor	ug/l	0.4	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Heptachlor epoxide	ug/l	0.2	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Methoxychlor	ug/l	40	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Toxaphene	ug/l	3	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	-

GC Semi-volatiles (SW846 8082A)

Aroclor 1016	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Aroclor 1221	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Aroclor 1232	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Aroclor 1242	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Aroclor 1248	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Aroclor 1254	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Aroclor 1260	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-

GC Semi-volatiles (SW846 8151A)

2,4-D	ug/l	70	6.9	2.1	3.9	1.1	-
2,4,5-TP (Silvex)	ug/l	50	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
2,4,5-T	ug/l	148	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Dicamba	ug/l	461	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Dinoseb	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Dalapon	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Dichloroprop	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
2,4-DB	ug/l	115	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-

PACE ANALYTICAL

Job Number: 60180084
Account: ISI Environmental Services
Project: Clean Harbors; Wichita, KS
Project Number:

Legend:
Detection
Exceed

Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	BLD C BAY 1	BLD C BAY 2	BLD C BAY 3	BLD C BAY 4	TRIP BLANK
Lab Sample ID:			60180084004	60180084003	60180084002	60180084001	60180084006
Date Sampled:			10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Matrix:			Water	Water	Water	Water	Water
MCPP	ug/l	-	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	-
MCPA	ug/l	-	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	-

Metals Analysis (EPA 6010)

Aluminum	ug/l	-	31500	4560	1240	339	-
Antimony	ug/l	6	78.6	11.1	ND (6.0)	ND (6.0)	-
Arsenic	ug/l	10	42.3	ND (10.0)	ND (10.0)	ND (10.0)	-
Barium	ug/l	2000	1660	305	ND (200)	ND (200)	-
Beryllium	ug/l	4	ND (4.0)	ND (4.0)	ND (4.0)	ND (4.0)	-
Cadmium	ug/l	5	36.6	5.6	ND (5.0)	ND (5.0)	-
Calcium	ug/l	-	305000	66300	40700	29200	-
Chromium	ug/l	100	1120	85.9	178	ND (10.0)	-
Cobalt	ug/l	4.68	246	ND (50.0)	ND (50.0)	ND (50.0)	-
Copper	ug/l	1300	347	61.6	36.3	ND (25.0)	-
Iron	ug/l	-	73300	9310	2910	840	-
Lead	ug/l	15	2070	294	937	22.6	-
Magnesium	ug/l	-	34000	16400	16200	13500	-
Manganese	ug/l	50	1710	175	57.6	18.3	-
Mercury	ug/l	2	2.5	ND (1.0)	ND (1.0)	ND (1.0)	-
Molybdenum	ug/l	-	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	-
Nickel	ug/l	312	251	60.5	ND (40.0)	ND (40.0)	-
Potassium	ug/l	-	20000	ND (10000)	ND (10000)	ND (10000)	-
Selenium	ug/l	50	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-
Silver	ug/l	77.9	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-
Sodium	ug/l	-	119000	99900	106000	92000	-
Strontium	ug/l	-	1310	360	310	249	-

PACE ANALYTICAL

Job Number: 60180084
Account: ISI Environmental Services
Project: Clean Harbors; Wichita, KS
Project Number:

Legend:
Detection
Exceed

Client Sample ID:		KS Tier 2 Risk Based Standards	BLD C BAY 1	BLD C BAY 2	BLD C BAY 3	BLD C BAY 4	TRIP BLANK
Lab Sample ID:		Residential	60180084004	60180084003	60180084002	60180084001	60180084006
Date Sampled:		GW (KDHE	10/10/2014	10/10/2014	10/10/2014	10/10/2014	10/10/2014
Matrix:		03/2014)	Water	Water	Water	Water	Water
Thallium	ug/l	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-
Tin	ug/l	-	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	-
Titanium	ug/l	-	687	123	38.2	11.4	-
Vanadium	ug/l	-	88.2	ND (50.0)	ND (50.0)	ND (50.0)	-
Zinc	ug/l	4670	63800	4320	6870	963	-

PACE ANALYTICAL			
Job Number:	60180084		
Account:	ISI Environmental Services		
Project:	Clean Harbors; Wichita, KS		
Project Number:			
Legend:		Detection	Exceed
Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	Bld C Bay 1-4
Lab Sample ID:			60180084005
Date Sampled:			10/10/2014
Matrix:			Water

DIOXIN / FURANS RESULTS			
2378-TCDF	pg/L	-	ND(10)
12378-PeCDF	pg/L	-	ND(50)
23478-PeCDF	pg/L	-	ND(50)
123478-HxCDF	pg/L	-	ND(50)
123678-HxCDF	pg/L	-	ND(50)
234678-HxCDF	pg/L	-	ND(50)
123789-HxCDF	pg/L	-	ND(50)
1234678-HpCDF	pg/L	-	390* I
1234789-HpCDF	pg/L	-	ND(50)
OCDF	pg/L	4930000	1700
2378-TCDD	pg/L	30	ND(10)
12378-PeCDD	pg/L	-	ND(50)
123478-HxCDD	pg/L	-	ND(50)
123678-HxCDD	pg/L	-	ND(50)
123789HxCDD	pg/L	-	ND(50)
1234678-HpCDD	pg/L	-	1600
OCDD	pg/L	-	17000

Notes: (") Reporting Limit in Parenthesis

* = Estimated Maximum Possible Concentration

I = Interference Present

PACE ANALYTICAL				
Job Number:	60182837			
Account:	ISI Environmental Services			
Project:	Clean Harbors; Wichita, KS			
Project Number:				
Legend:			Detection	Exceed
Client Sample ID:		KS Tier 2 Risk Based Standards Residential GW (KDHE 03/2014)	Bld C- Bay 1- CW	Bld C- Bay 1- F
Lab Sample ID:			60182837010	60182837011
Date Sampled:			11/18/2014	11/18/2014
Matrix:			Water	Water
Metals Analysis (EPA 6010)				
Aluminum	ug/l	-	2040	7550
Antimony	ug/l	6	ND (6.0)	13.9
Arsenic	ug/l	10	ND (10.0)	11.0
Barium	ug/l	2000	ND (200)	752
Beryllium	ug/l	4	ND (4.0)	ND (4.0)
Cadmium	ug/l	5	ND (5.0)	12.0
Calcium	ug/l	-	51200	90000
Chromium	ug/l	100	33.4	112
Cobalt	ug/l	4.68	ND (50.0)	ND (50.0)
Copper	ug/l	1300	ND (25.0)	73.6
Iron	ug/l	-	5240	14300
Lead	ug/l	15	107	460
Magnesium	ug/l	-	15500	17500
Manganese	ug/l	50	116	259
Mercury	ug/l	2	ND (1.0)	ND (1.0)
Molybdenum	ug/l	-	ND (50.0)	ND (50.0)
Nickel	ug/l	312	ND (40.0)	62.4
Potassium	ug/l	-	ND (10000)	ND (10000)
Selenium	ug/l	50	ND (10.0)	ND (10.0)
Silver	ug/l	77.9	ND (10.0)	ND (10.0)
Sodium	ug/l	-	93200	94300
Strontium	ug/l	-	324	438
Thallium	ug/l	-	ND (10.0)	ND (10.0)
Tin	ug/l	-	ND (50.0)	ND (50.0)
Titanium	ug/l	-	72.6	251
Vanadium	ug/l	-	ND (50.0)	ND (50.0)
Zinc	ug/l	4670	3200	6680

PACE ANALYTICAL

Job Number:	60182837
Account:	ISI Environmental Services
Project:	Clean Harbors; Wichita, KS
Project Number:	

Legend: Detection Exceedance

[illegible]

GC/MS Volatiles (SW846 8260B)

Acetone	ug/l	11500	ND (25)	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)
Acrolein	ug/l	0.0415	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)
Acrylonitrile	ug/l	0.0491	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Benzene	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Bromobenzene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Bromochloromethane	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Bromodichloromethane	ug/l	80	1.6	1.6	1.6	ND (1.0)	1.6	1.6	1.6	1.6	1.6	ND (1.0)
Bromoform	ug/l	80	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Bromomethane	ug/l	7.02	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
2-Butanone (MEK)	ug/l	4920	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
n-Butylbenzene	ug/l	169	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
sec-Butylbenzene	ug/l	30.5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
tert-Butylbenzene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Carbon disulfide	ug/l	716	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Carbon tetrachloride	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Chlorobenzene	ug/l	100	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Chloroethane	ug/l	14000	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Chloroform	ug/l	80	1.6	1.6	ND (1.0)	ND (1.0)	1.6	1.6	1.6	1.6	ND (1.0)	ND (1.0)
Chloromethane	ug/l	127	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
2-Chlorotoluene	ug/l	88.9	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
4-Chlorotoluene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethane	ug/l	25	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloroethene	ug/l	7	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1-Dichloropropene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,2-Dibromo-3-chloropropane	ug/l	0.20	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
1,2-Dibromoethane (EDB)	ug/l	0.05	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,2-Dichloroethane	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,2-Dichloropropane	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,3-Dichloropropane	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
2,2-Dichloropropane	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,4 Dioxane (p-Dioxane)	ug/l	77.20	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)
Dibromomethane	ug/l	-	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Dibromochloromethane	ug/l	80	1.6	1.6	1.6	ND (1.0)	1.6	1.6	1.6	1.6	1.6	ND (1.0)
Dichlorodifluoromethane	ug/l	366	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
cis-1,2-Dichloroethene	ug/l	70	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
cis-1,3-Dichloropropene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,2-Dichlorobenzene	ug/l	600	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,3-Dichlorobenzene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,4-Dichlorobenzene	ug/l	75	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
trans-1,2-Dichloroethene	ug/l	100	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
trans-1,3-Dichloropropene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Ethylbenzene	ug/l	700	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
2-Hexanone	ug/l	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Hexachloro-1,3-butadiene	ug/l	6.32	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Isopropylbenzene	ug/l	451	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
p-Isopropyltoluene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
4-Methyl-2-pentanone	ug/l	1020	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Methylene chloride	ug/l	5	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Methyl Tert Butyl Ether	ug/l	133	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

Client Sample ID:		KS Tier 2 Risk Based Standards	BLD C-BAY 5-CW	BLD C-BAY 5-F	BLD C-BAY 6-CW	BLD C-BAY 6-F	BLD C-BAY 7-CW	BLD C-BAY 7-F	BLD C-BAY 8-CW	BLD C-BAY 8 - F	Dup-11	Trip Blank
Lab Sample ID:		Residential	60182837007	60182837008	60182837003	60182837004	60182837002	60182837005	60182837001	60182837006	60182837012	60182837013
Date Sampled:		GW (KDHE 03/2014)	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014
Matrix:			Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Naphthalene	ug/l	1.11	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
n-Propylbenzene	ug/l	660	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Styrene	ug/l	100	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	2.0	ND (1.0)	ND (1.0)
1,1,1,2-Tetrachloroethane	ug/l	5.35	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1,1-Trichloroethane	ug/l	200	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1,2,2-Tetrachloroethane	ug/l	0.694	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,1,2-Trichloroethane	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,2,3-Trichlorobenzene	ug/l	-	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,2,3-Trichloropropane	ug/l	0.00468	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
1,2,4-Trichlorobenzene	ug/l	70	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
1,2,4-Trimethylbenzene	ug/l	8.44	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
1,3,5-Trimethylbenzene	ug/l	44	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Tetrachloroethylene	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Toluene	ug/l	1000	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	1.5	ND (1.0)	ND (1.0)
Trichloroethane	ug/l	5	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Trichlorofluoromethane	ug/l	1090	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
Vinyl chloride	ug/l	2	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Vinyl Acetate	ug/l	406	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)
Xylene (Total)	ug/l	10000	ND (3.0)	ND (3.0)	ND (3.0)	3.8	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)	ND (3.0)
m,p-Xylene	ug/l	10000	ND (2.0)	ND (2.0)	ND (2.0)	2.5	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)	ND (2.0)
o-Xylene	ug/l	10000	ND (1.0)	ND (1.0)	ND (1.0)	1.4	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)

GC/MS Semi-volatiles (SW846 8270D)

Benzoic Acid	ug/l	-	ND (50.0)	ND (50.0)	ND (50.0)	51.6	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	-
2-Chlorophenol	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
4-Chloro-3-methyl phenol	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2,4-Dichlorophenol	ug/l	41.2	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2,4-Dimethylphenol	ug/l	292	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2,4-Dinitrophenol	ug/l	31	ND (25.0)	ND (25.0)	ND (25.0)	ND (24.5)	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	-
4,6-Dinitro-2-methylphenol	ug/l	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (9.8)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-
2-Methylphenol (o-Cresol)	ug/l	744	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
3&4-Methylphenol (m&p Cresol)	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2-Nitrophenol	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
4-Nitrophenol	ug/l	-	ND (25.0)	ND (25.0)	ND (25.0)	ND (24.5)	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	-
Pentachlorophenol	ug/l	1	ND (25.0)	ND (25.0)	ND (25.0)	ND (24.5)	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	ND (25.0)	-
Phenol	ug/l	4560	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2,4,5-Trichlorophenol	ug/l	1260	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2,4,6-Trichlorophenol	ug/l	13	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Acenaphthene	ug/l	253	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Acenaphthylene	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Aniline	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Anthracene	ug/l	1150	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Benzo(a)anthracene	ug/l	0.00367	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Benzo(a)pyrene	ug/l	0.223	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Benzo(b)fluoranthene	ug/l	0.20	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Benzo(g,h,i)perylene	ug/l	0.16	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Benzo(k)fluoranthene	ug/l	1.62	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
4-Bromophenyl phenyl ether	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Butyl benzyl phthalate	ug/l	333	3.1	ND (5.0)	ND (5.0)	17.2	ND (5.0)	ND (5.0)	ND (5.0)	1.9	5.2	-
Benzyl Alcohol	ug/l	-	39.2	17.5	26.8	28.5	16.1	18.8	27.7	16.8	5.3-7.1	-
2-Chloronaphthalene	ug/l	344	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
4-Chloroaniline	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Carbazole	ug/l	28.70	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Chrysene	ug/l	22.3	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
bis(2-Chloroethoxy)methane	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
bis(2-Chloroethyl)ether	ug/l	0.124	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
bis(2-Chloroisopropyl)ether	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
4-Chlorophenyl phenyl ether	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-

Client Sample ID:		KS Tier 2 Risk Based Standards	BLD C-BAY 5-CW	BLD C-BAY 5-F	BLD C-BAY 6-CW	BLD C-BAY 6-F	BLD C-BAY 7-CW	BLD C-BAY 7-F	BLD C-BAY 8-CW	BLD C-BAY 8 - F	Dup-11	Trip Blank
Lab Sample ID:		Residential	60182837007	60182837008	60182837003	60182837004	60182837002	60182837005	60182837001	60182837006	60182837012	60182837013
Date Sampled:		GW (KDHE 03/2014)	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014
Matrix:			Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
1,2-Dichlorobenzene	ug/l	600	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
1,3-Dichlorobenzene	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
1,4-Dichlorobenzene	ug/l	75	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2,4-Dinitrotoluene	ug/l	2.67	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2,6-Dinitrotoluene	ug/l	0.557	5.6	ND (5.0)	9.4	21.9	ND (5.0)	10.6	8.7	ND (5.0)	8.4	-
3,3'-Dichlorobenzidine	ug/l	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (9.8)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-
Dibenzo(a,h)anthracene	ug/l	0.00805	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Dibenzofuran	ug/l	4.13000	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Di-n-butyl phthalate	ug/l	1350	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Di-n-octyl phthalate	ug/l	18.4	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Diethyl phthalate	ug/l	12200	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Dimethyl phthalate	ug/l	155000	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
bis(2-Ethylhexyl)phthalate	ug/l	6	59.1	70.2	14.8	177	21.2	191	64.1	79.5	91.5	-
Fluoranthene	ug/l	255	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Fluorene	ug/l	162	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Hexachlorobenzene	ug/l	1	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Hexachloro-1,3-butadiene	ug/l	6.32	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Hexachlorocyclopentadiene	ug/l	50	ND (10.0)	ND (10.0)	ND (10.0)	ND (9.8)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-
Hexachloroethane	ug/l	9.14	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Indeno(1,2,3-cd)pyrene	ug/l	0.117	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Isophorone	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2-Methylnaphthalene	ug/l	16.7	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
2-Nitroaniline	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
3-Nitroaniline	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
4-Nitroaniline	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Naphthalene	ug/l	1.11	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Nitrobenzene	ug/l	1.01	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
N-Nitroso-di-n-propylamine	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
N-Nitrosodiphenylamine	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Phenanthrene	ug/l	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Pyrene	ug/l	202	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-
Pyridine	ug/l	4.96	ND (10.0)	ND (10.0)	ND (10.0)	ND (9.8)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-
1,2,4-Trichlorobenzene	ug/l	70	ND (5.0)	ND (5.0)	ND (5.0)	ND (4.9)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-

GC Semi-volatiles (SW846 8081B)

Aldrin	ug/l	0.0495	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
alpha-BHC	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
beta-BHC	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
delta-BHC	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
gamma-BHC (Lindane)	ug/l	0.2	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
alpha-Chlordane	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
gamma-Chlordane	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Dieldrin	ug/l	0.048	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
4,4'-DDD	ug/l	1.35	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
4,4'-DDE	ug/l	1.03	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
4,4'-DDT	ug/l	0.73	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Endrin	ug/l	2	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Endosulfan sulfate	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Endrin aldehyde	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Endrin ketone	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Endosulfan-I	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Endosulfan-II	ug/l	-	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Heptachlor	ug/l	0.4	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Heptachlor epoxide	ug/l	0.2	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Methoxychlor	ug/l	40	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	ND (0.010)	-
Toxaphene	ug/l	3	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	ND (0.30)	-

GC Semi-volatiles (SW846 8082A)

Client Sample ID:		KS Tier 2 Risk Based Standards	BLD C-BAY 5-CW	BLD C-BAY 5-F	BLD C-BAY 6-CW	BLD C-BAY 6-F	BLD C-BAY 7-CW	BLD C-BAY 7-F	BLD C-BAY 8-CW	BLD C-BAY 8 - F	Dup-11	Trip Blank
Lab Sample ID:		Residential	60182637007	60182637008	60182637003	60182637004	60182637002	60182637005	60182637001	60182637006	60182637012	60182637013
Date Sampled:		GW (KDHE 03/2014)	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014	11/18/2014
Matrix:			Water	Water	Water	Water	Water	Water	Water	Water	Water	Water

Aroclor 1016	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.49)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Aroclor 1221	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.49)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Aroclor 1232	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.49)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Aroclor 1242	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.49)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Aroclor 1248	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.49)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Aroclor 1254	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.49)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Aroclor 1260	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.49)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-

GC Semi-volatiles (SW846 8151A)

2,4-D	ug/l	70	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
2,4,5-TP (Silvex)	ug/l	50	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
2,4,5-T	ug/l	148	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Dicamba	ug/l	461	ND (0.50)	ND (0.50)	ND (0.50)	8.7	ND (0.50)	8.7	ND (0.50)	ND (2.5)	ND (0.50)	-
Dinoseb	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Dalapon	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
Dichloroprop	ug/l	-	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
2,4-DB	ug/l	115	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	ND (0.50)	-
MCPP	ug/l	-	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	-
MCPA	ug/l	-	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	ND (20.0)	-

Metals Analysis (EPA 8016)

Aluminum	ug/l	-	496	1550	1800	7610	2100	7410	2520	5910	3250	-
Antimony	ug/l	6	ND (6.0)	ND (6.0)	ND (6.0)	12.8	ND (6.0)	11.4	ND (6.0)	ND (6.0)	ND (6.0)	-
Arsenic	ug/l	10	ND (10.0)	ND (10.0)	ND (10.0)	10.1	ND (10.0)	10.1	ND (10.0)	ND (10.0)	ND (10.0)	-
Barium	ug/l	2000	ND (200)	ND (200)	ND (200)	464	ND (200)	544	ND (200)	444	254	-
Beryllium	ug/l	4	ND (4.0)	ND (4.0)	ND (4.0)	ND (4.0)	ND (4.0)	ND (4.0)	ND (4.0)	ND (4.0)	ND (4.0)	-
Cadmium	ug/l	5	ND (5.0)	ND (5.0)	ND (5.0)	7.6	ND (5.0)	8.2	ND (5.0)	6.9	5.0	-
Calcium	ug/l	-	31205	35304	37400	77390	77400	110600	35800	79900	43300	-
Chromium	ug/l	100	ND (10.0)	45.0	59.2	139	29.5	105	54.5	157	195	-
Cobalt	ug/l	4.68	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	-
Copper	ug/l	1300	ND (25.0)	ND (25.0)	22.2	95.2	39.9	69.2	33.0	35.5	20.8	-
Iron	ug/l	-	854	3990	6836	12006	1780	11100	4876	10300	4728	-
Lead	ug/l	15	27.1	55.5	98.1	326	38.8	263	72.6	528	98.8	-
Magnesium	ug/l	-	15400	15000	16700	16000	15000	17700	16000	17100	15300	-
Manganese	ug/l	50	30.2	44.0	105	233	66.0	218	83.2	216	96.4	-
Mercury	ug/l	2	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)	-
Molybdenum	ug/l	-	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	-
Nickel	ug/l	312	ND (40.0)	ND (40.0)	ND (40.0)	40.4	ND (40.0)	ND (40.0)	ND (40.0)	ND (40.0)	136	-
Potassium	ug/l	-	ND (10000)	ND (10000)	ND (10000)	14620	ND (10000)	12638	ND (10000)	ND (10000)	ND (10000)	-
Selenium	ug/l	50	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-
Silver	ug/l	77.9	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-
Sodium	ug/l	-	56000	96000	101000	138000	16000	110000	103000	105000	101000	-
Strontium	ug/l	-	324	225	283	446	290	402	268	289	289	-
Thallium	ug/l	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	ND (10.0)	-
Tin	ug/l	-	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	-
Titanium	ug/l	-	27.3	12.3	59.3	150	65.3	211.3	84.5	170	104	-
Vanadium	ug/l	-	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	ND (50.0)	-
Zinc	ug/l	4670	1760	2760	16800	18000	5760	10400	10900	15000	5940	-

Footnotes:

CW = Sample collected from Ceilings and Walls
F = Sample collected from Floor

PACE ANALYTICAL			
Job Number:	60180084		
Account:	ISI Environmental Services		
Project:	Clean Harbors; Wichita, KS		
Project Number:			
Legend:	Detection	Exceed	
Client Sample ID:		KS Tier 2 Risk Based Standards	Bld C Bay 5-8
Lab Sample ID:		Residential GW	60182837009
Date Sampled:		(KDHE 03/2014)	11/18/2014
Matrix:			Water

DIOXIN / FURANS RESULTS			
2378-TCDF	pg/L	-	40
12378-PeCDF	pg/L	-	95* P
23478-PeCDF	pg/L	-	ND(50)
123478-HxCDF	pg/L	-	51 J
123678-HxCDF	pg/L	-	ND(50)
234678-HxCDF	pg/L	-	ND(50)
123789-HxCDF	pg/L	-	ND(50)
1234678-HpCDF	pg/L	-	190* I
1234789-HpCDF	pg/L	-	ND(50)
OCDF	pg/L	4930000	660
2378-TCDD	pg/L	30	ND(10)
12378-PeCDD	pg/L	-	ND(50)
123478-HxCDD	pg/L	-	ND(50)
123678-HxCDD	pg/L	-	ND(50)
123789HxCDD	pg/L	-	52 J
1234678-HpCDD	pg/L	-	810
OCDD	pg/L	-	8100

Notes: (*) Reporting Limit in Parenthesis

* = Estimated Maximum Possible Concentration

P = PCDE Interference

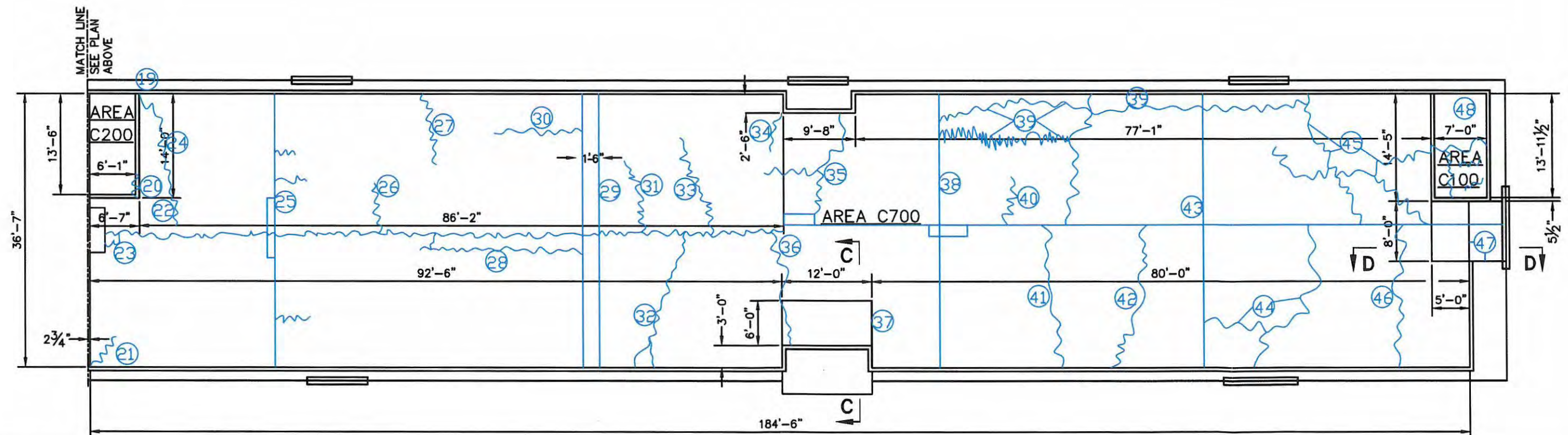
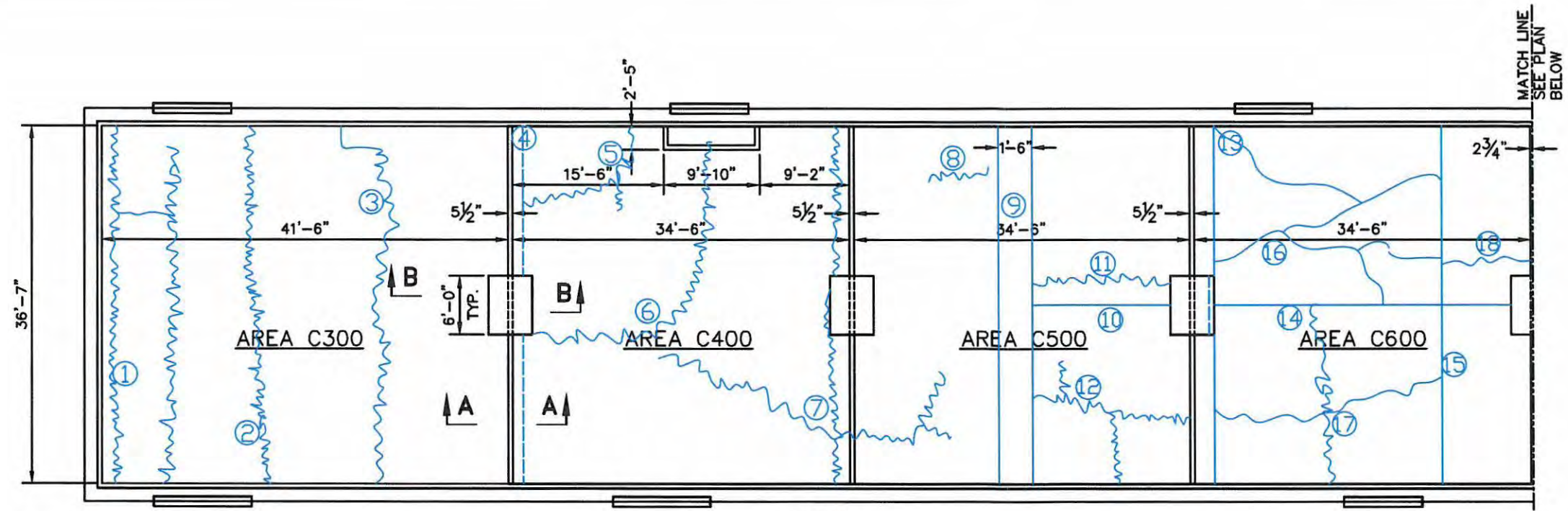
I = Interference Present

J = Estimated Value

ATTACHMENT 2: Crack Survey of Building C

Including:

- Crack Survey Figure**
- Crack Survey Description Table**
- Orientated Color Photo Log of Crack**



LEGEND

CRACK LOCATIONS

PLAN BUILDING C



CLEAN HARBORS
PROJECT NAME
BUILDING C
CRACK SURVEY MAP
SHEET TITLE
DRAWN BY: KLAUS
PROJECT MGR. J467025
10-27-2014 DATE
JOB NO. 1
SHEET 7 OF 7

Clean Harbors Crack Survey
Building C

Room/Bay	Crack ID	Description
Bay 1	1	1/8" wide crack, Partially sealed with silicone with branch to east with second branch north/south 1/16" hairline crack ("H") shaped). Boring completed through portion of crack.
Bay 1	2	1/8" wide crack – sealed with epoxy and silicone sealant.
Bay 1	3	Unknown crack width – sealed with ½" to 1' wide silicone bead.
Bay 2	4	Slab joint, sealed with silicone bead with fiberglass patch over North ½ of crack.
Bay 2	5	1/16" wide crack, multiple branches.
Bay 2	6	1/16" wide crack, silicone sealed with parts covered with fiberglass patch.
Bay 2	7	1/2" wide ground out and silicone sealed crack with fiberglass patch in places.
Bay 3	8	Unknown width, small crack, fiberglass covered.
Bay 3	9	Double slab joints – utility trench- sealed with silicone.
Bay 3	10	Center slab joint (East-West), sealed.
Bay 3	11	1" wide crack, ground out and silicone sealed.
Bay 3	12	Unknown crack width, fiberglass patched with 2 branches.
Bay 4	13	Slab joint – utility trench –sealed with topcoat in places.
Bay 4	14	East-West center slab joint, 1" to 1 ½" wide, silicone sealed.
Bay 4	15	North to South slab joint, 1 ½" wide sealed with silicone.
Bay 4	16	Multi-Branch cracks, ground out to ½" wide, sealed with silicone.
Bay 4	17	Multi-Branch cracks, ground out to ½" wide, sealed with silicone.
Bay 4	18	Crack, unknown width, fiberglass patched.
Bay 5	19	Edge joint around building secondary containment, sealed.
Bay 5	20	Crack in side of secondary containment berm, approximately 1/8" to ¼" in width and 1' in length.
Bay 5	21	Crack-1 ½" wide, ground out and silicone filled.
Bay 5	22	Slab joint – 1 ½" wide, ground out and silicone filled.
Bay 5	23	Crack – approximately 3' long and ½" wide – ground out and silicone filled.
Bay 5	24	Crack – 1" wide, ground out and silicone filled.
Bay 5	25	Slab joint – 1 ½" wide, ground out and silicone sealed, rectangular box near middle of building, with small cracks off of slab joint that are filled.
Bay 5	26	Crack – 1" wide, ground out and silicone filled.
Bay 5	27	Crack – 1" wide, ground out and silicone filled.
Bay 6	28	Branched crack – 1" wide, ground out and silicone filled.
Bay 6	29	Two slab joints – 1" wide, ground out and silicone filled.
Bay 6	30	Crack – 1" wide, ground out and silicone filled.
Bay 6	31	Crack – 1" wide, ground out and silicone filled.
Bay 6	32	Crack – 1 ½" wide, ground out and silicone filled.
Bay 6	33	Crack – 1" wide, ground out and silicone filled.
Bay 6	34	Crack – 1" wide, ground out and silicone filled.
Bay 6/7	35	Crack – 1" wide, and 3' x 1' rectangle - ground out and silicone filled.

Clean Harbors Crack Survey
Building C

Room/Bay	Crack ID	Description
Bay 6/7	36	Crack – 1 ½" wide, ground out and silicone filled.
Bay 7	37	Joint around forklift ramp – silicone filled.
Bay 7	38	Slab joint with rectangular box – 1" wide – ground out and silicone filled.
Bay 7/8	39	Long branching crack – 1" to 1 ½" wide- ground out and silicone filled.
Bay 7	40	Crack – approximately 6' long – 1" wide – ground out and silicone filled.
Bay 7	41	Crack – 1 ½" wide – ground out and silicone filled.
Bay 7/8	42	Crack – 1 ½" wide – ground out and silicone filled.
Bay 8	43	Slab joint – 1" wide – ground out and silicone filled.
Bay 8	44	Branched crack – 1" wide – ground out and silicone filled.
Bay 8	45	Branched crack – 1" to 1 ½" wide – ground out and silicone filled.
Bay 8	46	Crack – 1" wide, ground out and silicone filled.
Bay 8	47	Slab joints around forklift ramp – 1" wide, ground out and silicone filled.
Bay 8	48	Crack inside containment area – 1" wide, ground out and silicone filled.

Date: 10-21-14 and 11-10-14

Crack Survey Completed and Photographed by: Stuart B. Klaus, P.E., and Brady Gerber

Camera: Sony Cybershot Camera



1. Looking West. Crack-partially sealed with silicone, with branch to east and second 1/16" branch (north-south).



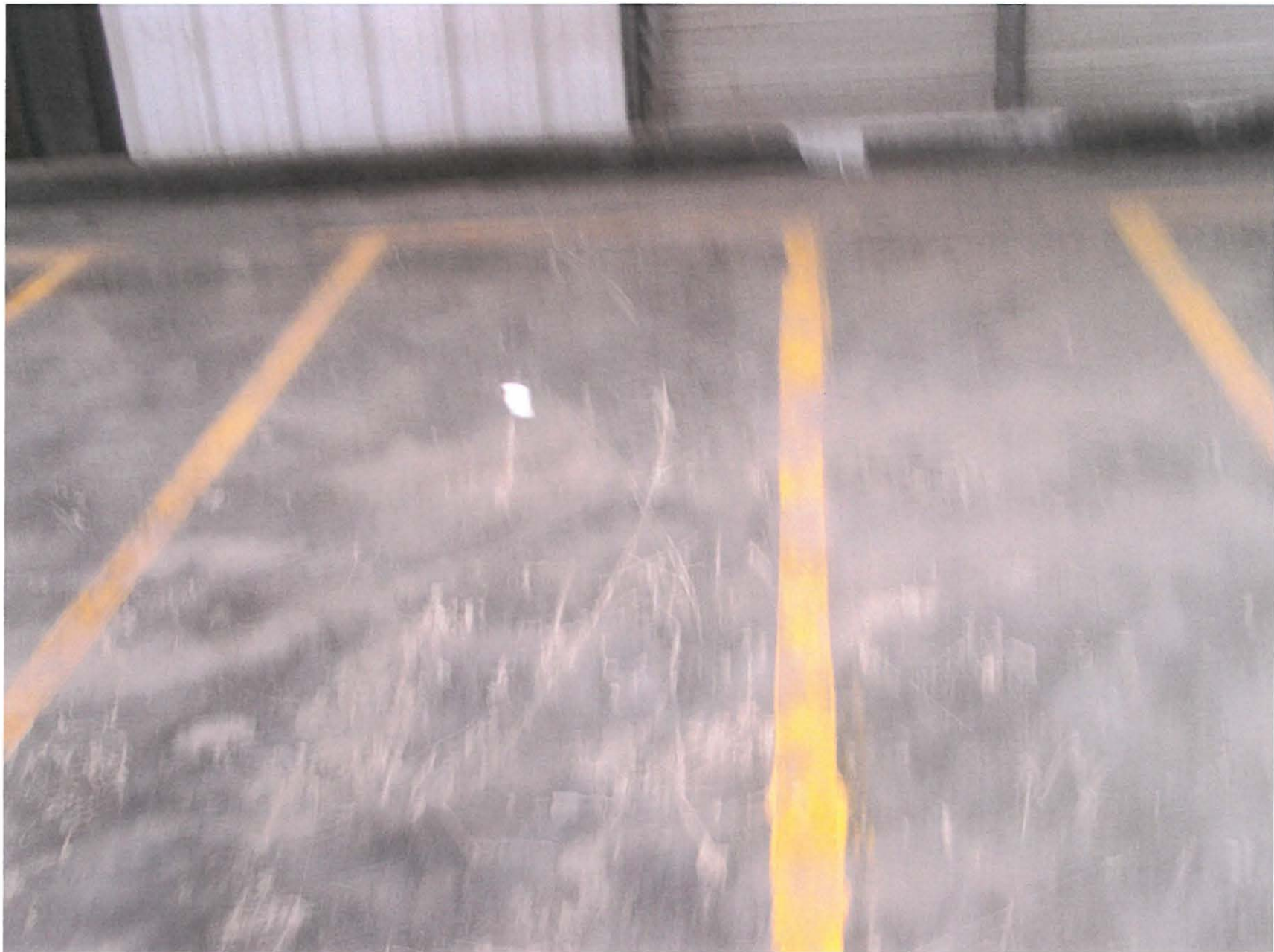
1. Looking North. Crack-partially sealed with silicone, with branch to east and second 1/16" branch (north-south).



1. Looking North. Crack-partially sealed with silicone, with branch to east and second 1/16" branch (north-south).



1. Looking North. Crack-partially sealed with silicone, with branch to east and second 1/16" branch (north-south).



1. Looking South. Crack-partially sealed with silicone, with branch to east and second 1/16" branch (north-south).



2. Looking North. Crack-sealed, 1/8" wide.



2. Looking South. Crack-sealed, 1/8" wide.



3. Looking North. Unknown crack width, sealed with 1/2" to 1" wide silicone bead.



3. Looking South. Unknown crack width, sealed with 1/2" to 1" wide silicone bead.



4. Looking South. Slab joint, sealed with silicone bead.



4. Looking North. Slab joint, sealed with silicone bead with fiberglass patch over North $\frac{1}{2}$ of crack.



4. Looking North. Slab joint, sealed with silicone bead with fiberglass patch over North $\frac{1}{2}$ of crack.



5. Looking East. 1/16" wide crack with multiple branches, fiberglass coated.



5. Looking North. 1/16" wide crack with multiple branches, fiberglass coated.



5. Looking Northeast. 1/16" wide crack with multiple branches, fiberglass coated.



6. Looking Northwest. 1/16" wide crack, silicone sealed with parts covered with fiberglass patch.



6. Looking Northeast. 1/16" wide crack, silicone sealed with parts covered with fiberglass patch.



6. Looking North. 1/16" wide crack, silicone sealed with parts covered with fiberglass patch.



7. Looking Southeast. 1/2" wide ground out and silicone sealed crack with fiberglass patch in places.



7. Looking Southeast. ½" wide ground out and silicone sealed crack with fiberglass patch in places.



7. Looking North. ½" wide ground out and silicone sealed crack with fiberglass patch in places.



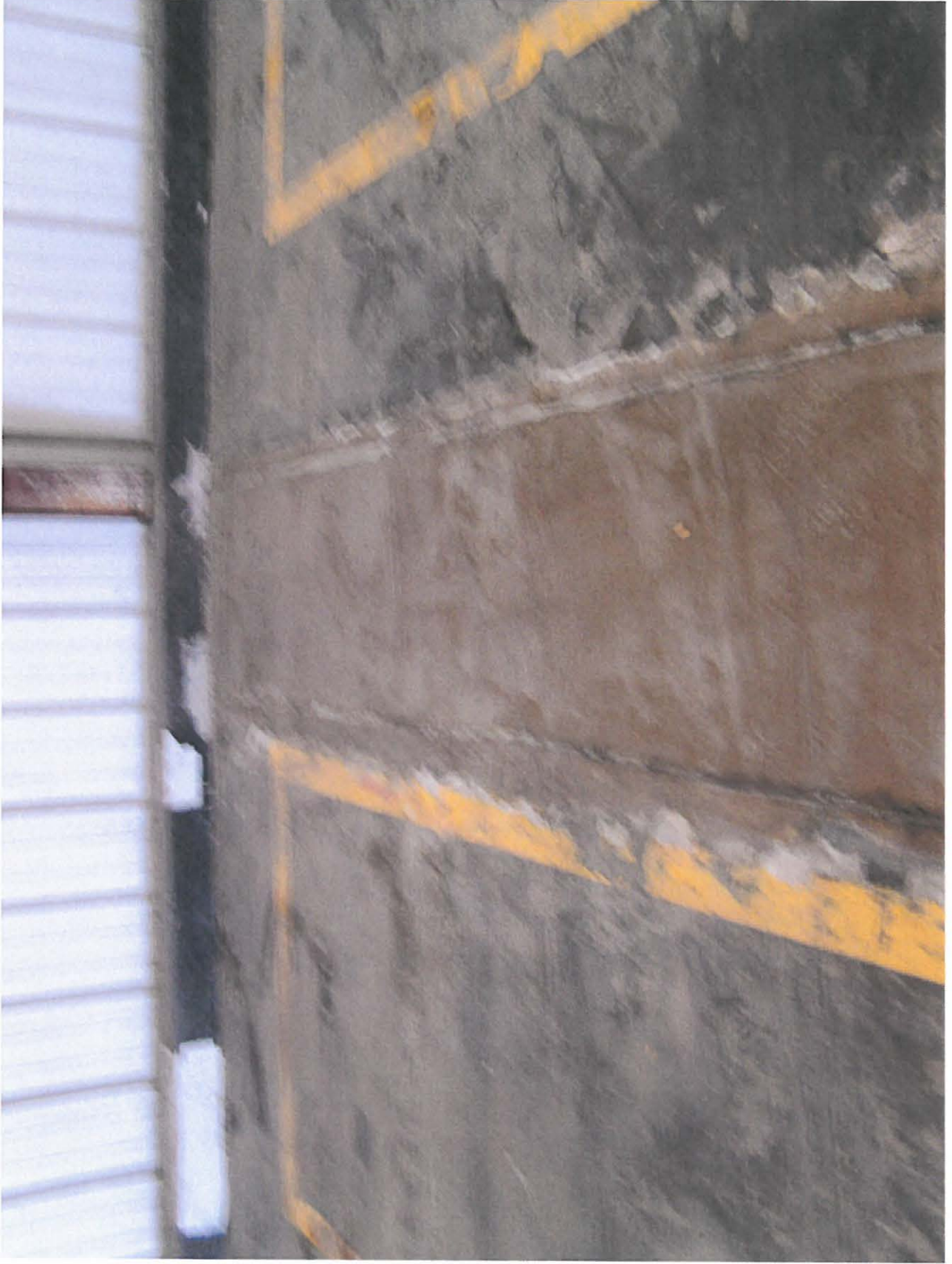
7. Looking North. ½" wide ground out and silicone sealed crack with fiberglass patch in places.



8. Looking North. Unknown width, small crack, fiberglass covered.



9. Looking South. Double slab joints – utility trench – sealed with silicone.



9. Looking North. Double slab joints – utility trench – sealed with silicone.



10. Looking East. Center slab joint (East-West), sealed. 11. 1" wide crack, ground out and silicone sealed.



12. Looking East. Unknown crack width, fiberglass patched with 2 branches.



12. Looking North. Unknown crack width, fiberglass patched with 2 branches.



12. Looking South. Unknown crack width, fiberglass patched with 2 branches.



12. Looking South. Unknown crack width, fiberglass patched with 2 branches.



13. Looking North. Slab joint – utility trench – sealed with topcoat in places.



13. Looking South. Slab joint – utility trench – sealed with topcoat in places.



14. Looking East. East-West center slab joint, 1" to 1 1/2" wide silicone sealed.



15. Looking South. North-South slab joint, 1 1/2" wide sealed with silicone.



15. Looking North. North-South slab joint, 1 1/2" wide sealed with silicone.



16. Looking East. Multi-branch cracks, ground out to 1/2" wide, sealed with silicone.



16. Looking Northeast. Multi-branch cracks, ground out to 1/2" wide, sealed with silicone.



16. Looking Southeast. Multi-branch cracks, ground out to 1/2" wide, sealed with silicone.



16. Looking South-Southeast. Multi-branch cracks, ground out to 1/2" wide, sealed with silicone.



17. Looking East. Multi-branch cracks, ground out to $\frac{1}{2}$ " wide, sealed with silicone.



17. Looking South. Multi-branch cracks, ground out to 1/2" wide, sealed with silicone.



17. Looking East. Multi-branch cracks, ground out to 1/2" wide, sealed with silicone.



17. Looking East. Multi-branch cracks, ground out to 1/2" wide, sealed with silicone.



18. Looking East. Crack, unknown width, fiberglass patched.



19. Looking West. Edge joint around building secondary containment – sealed.



19. Looking North. Edge joint around building secondary containment – sealed.



20. Looking West. Crack in side of secondary containment berm approximately 1/8" to 1/4" in width and 1' in length.



21. Looking South. Crack - 1 1/2" in width-ground out and silicone filled.



22. Looking East. Slab joint — 1 1/2" wide — ground out and silicone filled.



23. Looking East. Crack – approximately 3' long and ½" wide – ground out and silicone filled.



24. Looking North. Crack – 1" in width – ground out and silicone filled.



25. Looking South. Slab joint – 1 ½” wide – ground out and silicone sealed, with small spur crack that is also filled.



25. Looking North. Slab joint – 1 ½" wide – ground out and silicone sealed with rectangular box near middle of building.



25. Looking North. Slab joint – 1 ½" wide – ground out and silicone sealed with cracks coming off of slab joint.



26. Looking North. Crack – 1" in width – ground out and filled with silicone.



27. Looking North. Crack – 1" in width – ground out and filled with silicone.



28. Looking East. Branched crack-1" in width – ground out and filled with silicone.



29. Looking South. Two slab joints – 1" wide – ground out and silicone sealed.



29. Looking North. Two slab joints – 1" wide – ground out and silicone sealed.



29. Looking North. Two slab joints – 1" wide – ground out and silicone sealed.



30. Looking West. Crack- 1" wide – ground out and silicone sealed.



31. Looking North. Crack- 1" wide - ground out and silicone sealed.



32. Looking South. Crack- 1 1/2" wide – ground out and silicone sealed.



33. Looking North. Crack- 1" wide - ground out and silicone sealed.



34. Looking North. Crack- 1" wide – ground out and silicone sealed.



35. Looking North. Crack- 1" wide – and 3' X 1' rectangle - ground out and silicone sealed.



35. Looking North. Crack – 1" wide – ground out and silicone sealed.



35. Looking West. Crack – 1" wide – ground out and silicone sealed.



36. Looking South. Crack – 1 1/2" wide – ground out and silicone sealed.



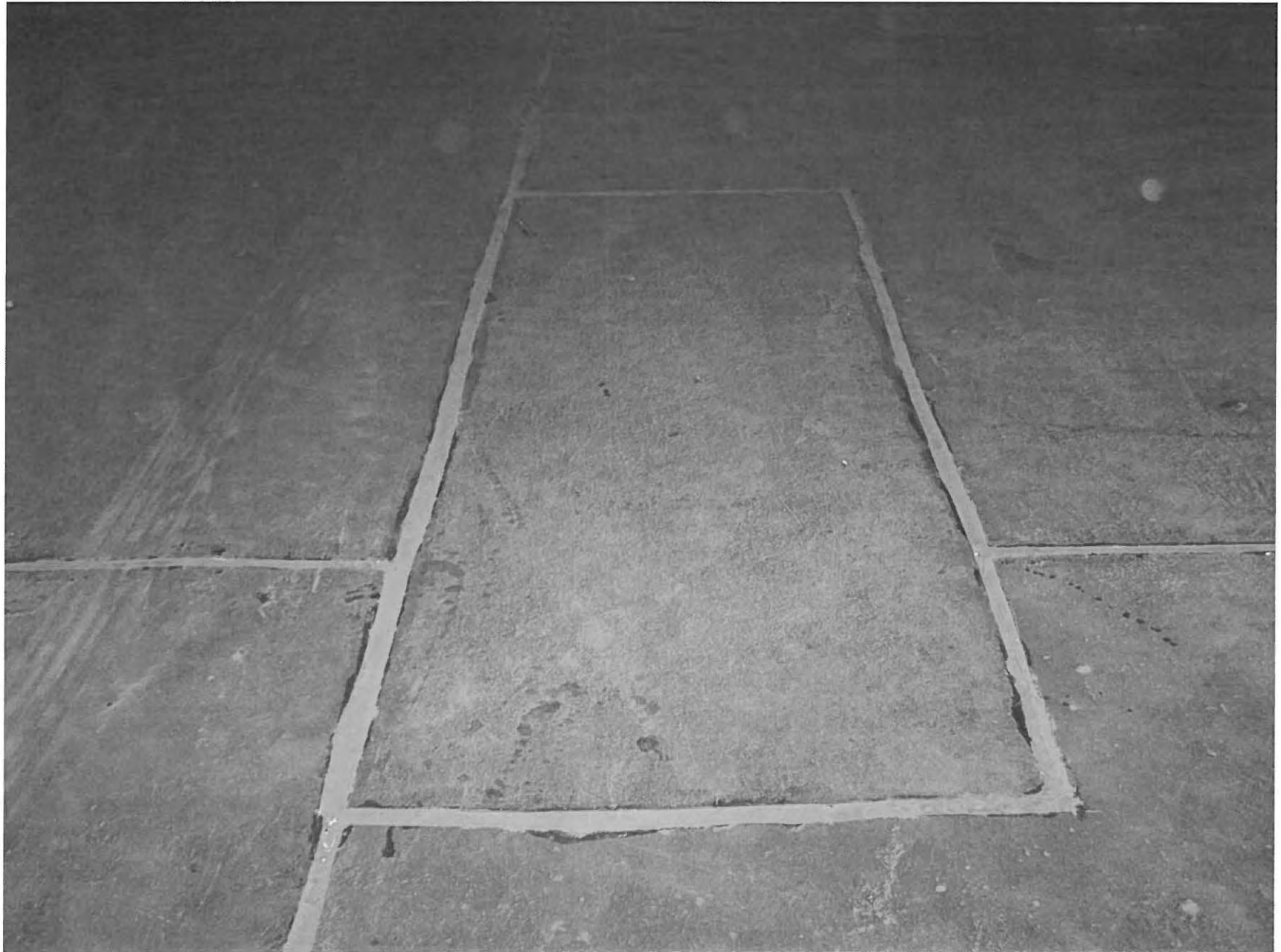
37. Looking East. Joint around forklift ramp – silicone sealed.



38. Looking North. Slab joint – 1" wide – ground out and silicone sealed.



38. Looking South. Slab joint – 1" wide – ground out and silicone sealed.



38. Looking East. Slab joint with rectangular box near middle of building – 1" wide – ground out and silicone sealed.



39. Looking East. Long branching crack 1 to 1½" wide - ground out and silicone sealed.



39. Looking South. Long branching crack 1 to 1½" wide - ground out and silicone sealed.



39. Looking Northwest. Long branching crack 1 to 1½" wide - ground out and silicone sealed.



39. Looking East. Long branching crack 1 to 1½" wide - ground out and silicone sealed.



40. Looking South. Approximately 6' long crack – 1" wide – ground out and silicone sealed.



41. Looking South. Crack – 1 1/2" wide – ground out and silicone sealed.



42. Looking South. Crack – 1 1/2" wide – ground out and silicone sealed.



43. Looking North. Slab joint – 1" wide – ground out and silicone sealed.



43. Looking South. Slab joint – 1" wide – ground out and silicone sealed.



44. Looking North. Branched crack – 1" wide – ground out and silicone sealed.



44. Looking West. Branched crack – 1" wide – ground out and silicone sealed.



45. Looking Southeast. Branched crack – 1 to 1 ½" wide – ground out and silicone sealed.



45. Looking East. Branched crack – 1 to 1 ½" wide – ground out and silicone sealed.



45. Looking Southeast. Branched crack – 1 to 1 ½" wide – ground out and silicone sealed.



45. Looking Southeast. Branched crack – 1 to 1 ½" wide – ground out and silicone sealed.



45. Looking East. Branched crack – 1 to 1 ½" wide – ground out and silicone sealed.



45. Looking North. Branched crack – 1 to 1 ½" wide – ground out and silicone sealed.



45. Looking Northwest. Branched crack – 1 to 1 ½" wide – ground out and silicone sealed.



46. Looking South. Crack – 1" wide – ground out and silicone sealed.



46. Looking South. Crack – 1" wide – ground out and silicone sealed.



47. Looking North. Slab joints around forklift ramp – 1" wide – ground out and sealed.



48. Looking North. Crack inside containment area – 1" wide – ground out and sealed.